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*R.124*

a pressurized gas source for supplying said hyperbaric oxygen;  
an oxygenator for receiving said hyperbaric oxygen;  
a perfusate for absorbing said hyperbaric oxygen within said oxygenator; and  
a fluid delivery tube attached to said oxygenator;  
whereby oxygenated perfusate is delivered to said biological entity through said fluid delivery tube.

*3* *5* 16. The system as defined in Claim 15, further including a metabolic supplement, whereby said metabolic supplement is added to said perfusate for delivery to said biological entity.

*4* *6* 17. The system as defined in Claim 16, further including means for monitoring the effect of said metabolic supplement on said biological entity.

*5* *7* 18. The system as defined in Claim 15, wherein said oxygenated perfusate contains at least 4.5 volume percent oxygen.

*6* *8* 19. The system as defined in Claim 15, further including a temperature control unit whereby the temperature of said perfusate and said biological entity can be regulated from approximately 0 degrees centigrade to approximately 40 degrees centigrade.

*7* *9* 20. The system as defined in Claim 15, wherein said perfusate contains biological entity waste products and said system further comprises a biological filter for removal of said biological entity waste products.

*8* *10* 21. The system as defined in Claim 15, further including a perfusate container for holding said biological entity and a quantity of said perfusate within said vessel.

*9* *11* 22. The system as defined in Claim 15, further including means for pumping said perfusate